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## (54) CHANNEL ASSIGNMENT METHOD

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a wireless system capable of singly flexibly covering transmission from low speed transmission whose transmission rate is about several Kbps to high speed transmission whose transmission rate is about 100 Mbps at maximum and an area from a narrow area such as an indoor area to a wide area of about several kilometers at maximum.

**SOLUTION:** A subcarrier assignment method using the multicarrier CDMA system employing a plurality of orthogonal subcarriers on a frequency axis to assign the subcarriers to a communication channel, realizes high speed communication by assigning many subcarriers each having small transmission power to the channel when the distance between a base station and a mobile station is near, and realizes low speed communication but a wide area coverage by assigning a few subcarriers to increase the transmission power of one subcarrier each when the distance between the base station and the mobile station is far. Thus, various speed communication and a variable speech available area size can simultaneously be realized while making the transmission power per user constant.

